

# **NOTIFICATION OF ADDENDUM**

## **ADDENDUM NO. 1**

**DATED 7/30/2013**

<b>Control</b>	<b>0364-06-011, ETC.</b>
<b>Project</b>	<b>STP 2011(227)TE, ETC.</b>
<b>Highway</b>	<b>SH 26, ETC.</b>
<b>County</b>	<b>TARRANT</b>

Ladies/Gentlemen:

Attached please find an addendum on the above captioned project. Included in the attachment is an addendum notification which details the changes and the respective proposal pages which were added and/or changed.

Except for new bid insert pages, it is unnecessary to return any of the pages attached.

Bid insert pages must be returned with the bid proposal submitted to the Department, unless your firm is submitting a bid using a computer print out. The computer print out must be changed to reflect the new bid item information.

Contractors and material suppliers, etc. who have previously been furnished informational proposals are not being furnished a copy of the addendum. If you have a subcontractor on the above project, please advise them of this addendum. Acknowledgment of this addendum is not requested if your company has been issued a proposal stamped "This Proposal Issued for Informational Purposes."

You are required to acknowledge receipt of this addendum on the Addendum Acknowledgement form contained in your bid proposal by placing a mark in the box next to the respective addendum.

Failure to Acknowledge receipt of this addendum in your bid proposal will result in your bid not being read.

SUBJECT: PLANS AND PROPOSAL ADDENDUMS

PROJECT: STP 2011(227)TE

CONTROL: 0364-06-011

COUNTY: TARRANT

LETTING: 08/07/2013

REFERENCE NO: 0729

**PROPOSAL ADDENDUMS**

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\_ PROPOSAL COVER

\_ BID INSERTS (SH. NO.:

X GENERAL NOTES (SH. NO.: A-S

\_ SPEC LIST (SH. NO.:

\_ SPECIAL PROVISIONS:

ADDED:

DELETED:

\_ SPECIAL SPECIFICATIONS:

ADDED:

DELETED:

X OTHER: PLAN SHEET 2, PLAN SHEETS 7C-7L

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

SPECIFICATION DATA SHEETS A-S:

REMOVED COMPACTION REQUIREMENTS

REMOVED ITEM 2

REMOVED LAST PARAGRAPH ITEM 5

REMOVED SECOND PARAGRAPH ITEM 8

ADDED SEVENTH PARAGRAPH TO SHEET C

ADDED ITEM 310 NOTES

ADDED NOTES TO ITEM 423

ADDED ITEM 504 NOTES

ADDED ITEM 1122 NOTES

DESCRIPTION OF ABOVE CHANGES

(INCLUDING PLANS SHEET CHANGES)

(CONTINUED)

CHANGED ITEM 1109 TO ITEM 1142

ADDED ITEM 3267 NOTES

PLAN SHEET 2 - SHEET NUMBERS FOR GENERAL NOTES AND SPEC DATA CHANGED TO  
7C-7L

PLAN SHEETS 7C-7L - SEE CHANGES LISTED ABOVE.

**Project Number:** STP 2011 (227) TE, ETC

**Sheet**

**County:** TARRANT

**Control:** 0364-06-011, Etc.

**Highway:** SH26, ETC

\*\*\*\* Specification Data \*\*\*\*

**Basis of Estimate**

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Item	Description	Rate	Unit
166	Fert (16-8-8)	600 lb/acre**	Ton
168	Vegetative Watering	169,400 gal/acre	MG
260	Lime (Hydrated, Commercial Or Quicklime)(Slry)	150 lb/CY	Ton
310	Asph Mat'l (MC-30, AE-P, or EC-30) (Flex Base)	0.3 gal/SY*	Gal
260	Lime (Quicklime)	120 lb/CY	Ton
3267	Hot Mix (All Types)	115 lb/SY/in	Ton

\*\* Non-Pay, for Contractor's Information Only.

**Special Notes:**

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Electronic files containing answered pre-letting questions and other project related design information will be placed in the following FTP site periodically.

It is the responsibility of the contractor to check this site for new information. Notices of new postings will not be sent out.

The data located in these files is for non-construction purposes only.

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Instructions for using the FTP site:

From Internet Explorer, do the following:

Go to [FTP://ftp.dot.state.tx.us](ftp://ftp.dot.state.tx.us)

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Click Page>Open FTP site in Windows Explorer

Click File>Login As

Enter the Username and password and click “Log on”.

.....

FTP USERNAME: ftwntaor

FTP PASSWORD: inne3uts

Access is read-only

All files in the FTP site are subject to the License Agreement shown on the FTP site.

If you wish to obtain a copy of the project plans you may do so, free of charge from the following site.

[http://www.txdot.gov/business/contractors\\_consultants/plans\\_online.htm](http://www.txdot.gov/business/contractors_consultants/plans_online.htm)

Calculating, Recording and Reporting Test Data - Use appropriate TxDOT Excel templates to calculate and record all test data. These forms are available on the TxDOT website at [www.dot.state.tx.us/forms/construction.htm](http://www.dot.state.tx.us/forms/construction.htm) under the “SiteManager” heading. Submit test results within 24 hours of test completion by email or CD.

Single lane closures, except as otherwise shown in the plans, will be restricted to off-peak hours as defined in the following table:

Peak Hours		Off-Peak Hours	
6 to 9 AM Monday through Friday	3 to 7 PM Monday through Friday	9AM to 3PM and 7 PM to 6 AM Monday through Friday	All day Saturday and Sunday

Work that requires closure of multiple travel lanes in the same direction, except as otherwise shown in the plans, will be performed at night between the hours of 9:00 pm and 6:00 am.

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Existing storm sewers and utilities are shown from the best available information. Verify the location of all underground facilities prior to starting work.

For dimensions of R.O.W. not shown on the plans, see R.O.W. map on file at the TxDOT District Office.

Provide all-weather surface for temporary ingress and egress to adjacent property, as directed. Materials, labor, equipment and incidentals necessary to provide temporary ingress and egress will not be paid for directly, but will be subsidiary to the various bid items.

In those instances where necessary, the governing slopes indicated herein may be varied from the limits shown, to the extent approved.

Take care that existing curb and curb and gutter is not discolored or damaged during construction operations. In the event of discoloration or damage, clean or repair as directed.

Locations shown for drainage structures refer to the control points of structures as follows:

- 1) Headwalls -- Locations are to the outside face of the headwall at the centerline of the pipe or box structure. For pipe headwalls with Type "P" or "C" safety end treatment, locations are on the centerline of the pipe structure at the limit of payment for pipe.

Plugging of pipes or culverts will not be paid for directly, but shall be considered subsidiary to the various bid items, unless otherwise shown on the plans.

Provide temporary drain openings at all low points or other drainage structures, as required, at the Contractor's expense.

Remove any obstructions to existing drainage due to the contractor's operations, as required, at the Contractor's expense.

Install all required concrete riprap flumes immediately following the construction of ditches in which they are to be placed. In addition, apply all erosion control measures as shown on the plans or as directed, immediately following construction of channels to their required line, grade and section.

The City will perform certain preliminary work and will complete the work in such sequence and manner that the Contractor will be able to begin his work at the specified time.

The following standard detail sheets have been modified:

### **Item 5. Control of the Work**

When supplementary bridge plans, shop drawings, shop details, erection drawings, working drawings, forming plans or other drawings, are required, the drawings shall be prepared and submitted on sheets 8 1/2 by 11 inches, 17 by 22 inches, or full size drawings reduced to half scale if completely legible. If, in the opinion of the Engineer, the drawings are not completely legible, they shall be prepared and submitted on sheets 22 by 34 inches, with a one and one-half inch left margin, and a one-half inch top, right, and bottom margin.

All sheets submitted shall have a title in the lower right hand corner. The title shall include the sheet index data shown on the lower right corner of the project plans, name of the structure or element or stream, sheet numbering for the shop drawings, name of the fabricator and the name of the Contractor.

### **Item 7. Legal Relations and Responsibilities**

Do not initiate activities in a project specific location (PSL) associated with a U.S. Army Corps of Engineers (USACE) permit area that have not been previously evaluated by the USACE as part of the permit review of this project. Such activities include, but are not limited to, haul roads, equipment staging areas, borrow and disposal sites. "Associated" as defined here means materials are delivered to or from the PSL. The permit area includes all waters of the U.S. or associated wetlands affected by activities associated with this project. Special restrictions may be required for such work. The contractor shall be responsible for any and all consultations with the USACE regarding activities, including project specific locations (PSLs) that have not been previously evaluated by the USACE. Provide the Department with a copy of all consultation(s) or approval(s) from the USACE prior to initiating activities.

The Contractor may proceed with activities in PSLs that do not affect a USACE permit area if a self determination has been made that the PSL is non-jurisdictional or proper USACE clearances have been obtained in jurisdictional areas or have been previously evaluated by the USACE as part of the permit review of this project. The contractor is solely responsible for documenting any determination(s) that their activities do not affect a USACE permit area. Maintain copies of their determination(s) for review by the Department or any regulatory agency.

Document and coordinate with the USACE, if required, prior to any excavation hauled from or embankment hauled into a USACE permit area by either (1) or (2) below.

- (1) Restricted Use of Materials for Previously Evaluated Permit Areas.** Document both the project specific location (PSL) and its authorization. Maintain copies for review by the Department or any regulatory agency. When an area within the project limits has been evaluated by the USACE as part of the permit process for this project:

  - a. Suitable excavation of required material in the areas shown on the plans and cross sections as specified in Item 110 is used for permanent or temporary fill (Item 132, Embankment) within a USACE permit area;
  - b. Suitable embankment (Item 132) from within the USACE permit area is used as fill within a USACE evaluated area; and,
  - c. Unsuitable excavation or excess excavation [“Waste”] (Item 110) that is disposed of at a location approved by the Engineer within a USACE evaluated area.
- (2) Contractor Materials from Areas Other than Previously Evaluated Areas.** Provide the Department with a copy of all USACE coordination or approval(s) prior to initiating any activities for an area within the project limits that has not been evaluated by the USACE or for any off right of way locations used for the following, but not limited to, haul roads, equipment staging areas, borrow and disposal sites:

  - a. Item 132, Embankment, used for temporary or permanent fill within a USACE permit area; and,
  - b. Unsuitable excavation or excess excavation [“Waste”] (Item 110, Excavation) that is disposed of outside a USACE evaluated area.

The total area disturbed for this project is 6.5 acres. The disturbed area in this project, all project locations in the Contract, and the Contractor project specific locations (PSLs), within 1 mile of the project limits, for the Contract will further establish the authorization requirements for storm water discharges. The Department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. The Contractor is to obtain required authorization from the TCEQ for Contractor PSLs for construction support activities on or off the ROW. When the total area disturbed in the Contract and PSLs within 1 mile of the project limits exceeds 5 acres, provide a copy of the Contractor NOI for PSLs on the ROW to the Engineer and to the local government that operates a separate storm sewer system.

## **Item 8. Prosecution and Progress**

Working days will be computed and charged in accordance with Article 8.3.A.1 Five-Day Workweek.



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**Item 104. Removing Concrete**

When associated with a structure to be removed, removal of riprap as required, approach slabs and shoulder drains are to be included in the unit price bid for Item 496, 'Removing Structures'.

**Item 110. Excavation**

Review proposed waste sites to determine if any site is located in a "Base Floodplain" or "Floodway" as defined by the Federal Emergency Management Agency (FEMA).

If waste material from this project is placed in a base floodplain as defined by FEMA, a permit will have to be obtained from the local community responsible for enforcing National Flood Insurance Program (NFIP) regulations. The Contractor is responsible for ensuring that the owner of the property receiving the waste has obtained the necessary permit.

**Item 162. Block Sodding**

Furnish and place Bermudagrass sod. Bermuda sodding shall also include 4" of topsoil prior to placement of sod, placed to final grades. 4" of topsoil under all sod areas shall not be paid for separately but shall be considered subsidiary to this item.

**Item 166. Fertilizer**

Fertilize all areas of project to be seeded or sodded.

**Item 168. Vegetative Watering**

Furnish and install an approved rain gauge at the project site, as directed. Furnishing and installation of the rain gauge will not be paid for directly, but will be considered subsidiary to Item 168.

Apply vegetative watering for an establishment period of thirteen weeks following application of seed or installation of sod, at a rate of 1/2" of water depth per week (approximately 13,030 gallons per acre). During the first four weeks after seeding, apply watering twice per week, on non-consecutive days, each at half the weekly application rate. For the remainder of the establishment period, apply vegetative watering once per week during the months of January through June or September through December, at the weekly application rate; apply watering twice per week, on non-consecutive days during the months of July and August, each at one-half the weekly application rate.

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Average weekly rainfall rates for the District are as follows:

January – 0.39”	April – 0.86”	July – 0.48”	October – 0.68”
February – 0.46”	May – 1.00”	August – 0.47”	November – 0.46”
March – 0.48”	June – 0.63”	September – 0.74”	December – 0.37”

**Item 170. Irrigation System**

This item includes all work necessary to provide the main irrigation supply to the landscape amenity area. This would include locating the existing water main, connecting to the existing water main with new water tap, boring under SH 26, and the irrigation pipe to complete the connection from the water main to the landscape amenity area. All items necessary for this work, including permitting and testing, shall be included in this item and considered subsidiary.

**Item 170. Adjust Existing Irrigation System**

This item includes all work necessary to locate, operate, remove, extend, replace or any other adjustments necessary to modify existing private irrigation systems encountered within the project limits so as to accommodate the new trail construction. The contractor shall coordinate with the City and the property owner to operate and locate existing system, modify as needed to accommodate trail construction, test new system and return existing system to operational status. All irrigation work shall be completed by a licensed irrigator in the State of Texas.

**Item 310. Prime Coat**

Provide an AE-P for this Item. Apply AE-P as specified in Item 314.

**Item 360. Concrete Pavement**

When using the Hardy Chair-Lok to support reinforcing steel, chair spacing may be increased to 1.67 SY per chair, placed in a diamond or square pattern. Do not exceed 60” longitudinal spacing.

The provisions of Article 360.6.B will not be a requirement and the pavement will not be cored.

Include the approved mix design number on each delivery ticket.

**Item 423. Retaining Wall**

For MSE walls, provide a system from one of the following approved suppliers:

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**Sheet**

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REINFORCED EARTH WALLS  
THE REINFORCED EARTH COMPANY  
1331 AIRPORT FREEWAY, SUITE 302  
EULESS, TX 76040-4150  
(817) 283-5503

RETAINED EARTH WALLS  
FOSTER GEOTECHNICAL  
901 NORTH HIGHWAY 77  
HILLSBORO, TX 76645  
(254) 580-9100

REINFORCED SOIL EMBANKMENT WALLS  
TEXAS WELDED WIRE, INC.  
645 W. HURST BLVD.  
HURST, TX 76053  
(817) 282-4560

STABILIZED EARTH WALL  
T&B STRUCTURAL SYSTEMS, INC.  
6800 MANHATTAN BLVD, SUITE303  
FORT WORTH, TX 76120  
(817) 280-9858

STRENGTHENED EARTH WALLS  
HANSON CONCRETE PRODUCTS  
3500 MAPLE AVE.  
DALLAS, TX 75219  
(214) 525-5877

TRICON RETAINED SOIL WALLS  
TRICON PRECAST INC.  
15055 HENRY RD.  
HOUSTON, TX 77060  
(713) 931-9832

TENSAR RETAINING WALL SYSTEM  
TENSAR EARTH TECHNOLOGIES, INC.  
5775-B GLENRIDGE DR.  
ATLANTA, GA 30328

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(404) 250-1290

STRENGTHENED SOIL WALLS  
SHAW TECHNOLOGIES INC.  
P.O. BOX 271448  
FLOWER MOUND, TX 75027  
(972) 490-1924

STRUCTURAL EMBANKMENT SYSTEMS  
ROBERTSON ENGINEERING INC.  
327 N. DENTON STREET, SUITE 100  
WEATHERFORD, TEXAS 76086  
817-596-7500

VP WALL SYSTEM  
VALLEY PRESTRESS PRODUCTS, INC.  
P.O. BOX 1367  
MISSION, TX 78573  
(956) 584-5701

New System, currently on experimental status:

MSE PLUS  
Ssl CONSTRUCTION PRODUCTS  
4740 SCOTTS VALLEY DRIVE, SUITE E  
SCOTTS VALLEY, CA 95066  
(813) 430-9300

Systems on experimental status have been reviewed and approved by the Bridge Division but have not yet constructed wall on TxDOT projects. The supplier may be contacting districts and asking to be included on upcoming projects. These systems are expected to perform acceptably and should be considered for inclusion on upcoming projects; however, TxDOT policy does not allow the use of experimental systems on projects with over 50,000 square feet of MSE wall, walls over 25 ft tall, or walls supporting or immediately adjacent to interstate highways.

For concrete block walls, provide a system from one of the following approved suppliers:

KEYSTONE RETAINING WALLS  
JEWELL CONCRETE PRODUCTS, INC.  
P.O. BOX 7115  
WACO, TX 78716

**Highway:** SH26, ETC

(800) 792-3216

ANCHOR WALL SYSTEM  
PAVESTONE COMPANY  
P.O. BOX 1868  
GRAPEVINE, TEXAS 76051  
(817) 481-5802

VERSA-LOC RETAINING WALLS  
PALESTINE CONCRETE  
2202 CHOCKHILL RD  
DALLAS, TEXAS 75212  
(972) 263-5077

AMASTONE EARTH RETENTION SYSTEMS  
BLOCKS AND WALLS, INC.  
P.O. BOX 1157  
DEL VALLE, TEXAS 78617  
(512) 389-0270

PYRAMID BLOCKWALLS  
THE REINFORCED EARTH COMPANY  
1331 AIRPORT FREEWAY, SUITE 302  
EULESS, TEXAS 76040-4150  
(817) 283-5503

STONEWALL RETAINING WALLS  
FEATHERLITE BUILDING PRODUCTS  
P.O. BOX 1029  
AUSTIN, TEXAS 78767  
(512) 472-2424

MESA RETAINING WALL SYSTEM  
TENSAR EARTH TECHNOLOGIES, INC.  
5775-B GLENRIDGE DRIVE, SUITE 450  
ATLANTA, GEORGIA 30328  
(404) 250-1290

ALLAN BLOCK RETAINING WALLS  
EAGLE CONCRETE PRODUCTS  
6415 HARDY STREET  
HOUSTON, TEXAS 77022  
(800) 933-5509

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T-BLOCK RETAINING WALL SYSTEM  
T&B STRUCTURAL SYSTEMS  
637 W. HURST BLVD.  
HURST, TEXAS 76053  
(817) 280-9858

OMEGA WALLS  
SHAW TECHNOLOGIES, INC.  
P.O.BOX 654  
COLLEYVILLE, TEXAS 76034  
(817) 427-0997

ROCKWOOD RETAINING WALLS  
DEL NORTE MASONRY PRODUCTS  
4560 RIPLEY DRIVE  
EL PASO, TEXAS 79922  
(915) 535-2375

VENTURE RETAINING WALLS  
VENTURE RETAINING WALL SYSTEMS  
1333 WEST 120TH AVE., SUITE 312  
DENVER, COLORADO 80234  
(303) 254-8846

CORNERSTONE RETAINING WALLS  
FEATHERLITE BUILDING PRODUCTS  
P.O. BOX 425  
ROUND ROCK, TEXAS 78680  
(512) 255-2573

All embankment placed under retaining walls shall have a pi of less than 30.

**Item 432. Riprap**

Provide weepholes as directed.

Provide Class B Concrete for riprap.

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The quantities for riprap at the location indicated may be varied to the extent necessary to ensure proper functioning for the purpose intended.

All concrete riprap shall be 4" (.33') in thickness, unless otherwise shown in the plans, and shall be reinforced.

An 8 inch (.67') by 18 inch (1.5') toewall will be required at the exposed edge of all concrete riprap, unless otherwise directed.

Locations and lengths of riprap flumes shown on the plans are approximate. Actual lengths and locations are to be determined in the field.

**Item 464. Reinforced Concrete Pipe**

All bends and connections in pipe shall be prefabricated.

**Item 466. Headwalls and Wingwalls**

Do not use precast headwalls/wingwalls.

**Item 496. Removing Structures**

Designer: Contact Bridge Section for notes. This item shall provide for the removal of the existing stone wall and all related appurtenances.

**Item 502. Barricades, Signs, and Traffic Handling**

Permanent signs may be installed when construction in an area is complete and they will not be in conflict with the traffic control plan for the remainder of the job.

Existing signs are to remain as long as they do not interfere with construction and they do not conflict with the traffic control plan.

Any sign not detailed in the plans but called for in the layout shall be as shown in the current "Standard Highway Sign Designs for Texas".

When traffic is obstructed, arrange warning devices in accordance with arrangements indicated in the latest edition of the "Texas Manual on Uniform Traffic Control Devices".

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Cover or remove any work zone signs when work or condition referenced is not occurring. The Contractor Force Account "Safety Contingency" that has been established for this project is intended to be utilized for work zone enhancements, to improve the effectiveness of the Traffic Control Plan, that could not be foreseen in the project planning and design stage. These enhancements will be mutually agreed upon by the Engineer and the Contractor's Responsible Person based on weekly or more frequent traffic management reviews on the project. The Engineer may choose to use existing bid items if it does not slow the implementation of enhancement.

**Item 504. Field Office and Laboratory**

Furnish the following structures for this project:

<u>Type</u>	<u>No.</u>
Field Office (Ty. C)	1
Field Lab (Ty. D)	1

Furnish a copier and facsimile meeting the requirements of DMS-10101, "Computer Equipment".

Furnish the following for the Field Office structure:

<u>Item</u>	<u>No.</u>
Laptop Microcomputer	1
Printer	1
Internet Service	1
Microwave Oven	1
Wireless Router	1
Weekly janitorial Service	1
4 Drawer Locking File Cabinet	1
Water Cooler W/ Hot and Cold Dispenser	1
Refrigerator (Min. 10 CF)	1

Laptop Microcomputers shall have an Intel Pentium IV (1.5 GHz) processor, or better.

Integrated printer/copier/scanner/fax units will be permitted.



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**Item 528. Colored Textured Concrete and Landscape Pavers**

Ensure that all signal pole foundations, sign bases, electrical ground boxes, manholes, inlets and other appurtenances within the area to be paved are constructed to the proper finished grade.

The paver installation contractor shall have a minimum of three (3) years experience in the installation of interlocking concrete pavers.

All pavers shall conform to A.S.T.M. C 936(6). Where exposed to vehicular traffic, pavers shall be 3-1/8" thick. In all other areas, pavers shall be a minimum 2-3/8" thick. Provide certification from a professional test laboratory showing that the materials used and fabrication of the pavers meet or exceed these requirements. All pavers shall be free of defects that would interfere with proper placement or impair the strength of performance of the units. Acceptance of pavers which contain minor cracks, incidental to the usual methods of manufacture and shipping or resulting from customary methods of handling and delivery, shall be at the Engineer's discretion.

Deliver pavers to the project site on pallets, bound in such a manner as to prevent damage to the product during shipping, handling, and unloading.

Furnish flexible base meeting the requirements of Item 247, Type A, Grade 4.

Restrain all edges of the paved area. Edge restraints shall be cast-in-place concrete grade beams, 4" wide x 8" deep, or as shown in the plans, or existing sidewalk, curb, or pavement as shown.

Use string lines to maintain true pattern lines relative to back of curb, sidewalk, pavement or edge restraint, or as directed.

Fill gaps at the perimeter of the paved area with standard edge units or units cut to fit. Cut pavers with a masonry saw, leaving a smooth, clean edge. Pavers which spall along a cut edge will be rejected.

Upon completion of construction, sweep and clean the paver surface of all excess sand, soil, foreign material, and/or stains.

**Items 530 and 531. Intersections, Driveways and Turnouts, and Sidewalks**

The furnishing and installation of the sand cushion in the proposed sidewalks, sidewalk ramps and driveways will not be paid for directly but shall be considered subsidiary to this bid item.

**Item 531. Concrete Sidewalks (8") (SPL Retaining Wall)**

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This item shall be completed in accordance with Construction Detail CSWD-08 (FW). In addition, these walls include a milsap stone veneer and stone cap as part of the wall construction. The milsap stone veneer and stone cap shall be considered subsidiary to Item 531.

**Item 1014. Landscape Amenity**

The unit price bid per each Landscape Amenity shall include all items, materials, labor and incidentals necessary to construct a complete landscape amenity area as shown on the plans or as directed. For the contractor's information, a detailed list of the items required for the Landscape Amenity is provided below and these items are considered subsidiary to Item 1014:

ITEM	UNIT	QUANTITY
Surveying and Staking	L.S.	1
Remove/ Dispose of Existing Grass and Inert Materials	L.S.	1
Fine Grading	L.S.	1
Trellis – Galvanized Steel Frame and Lattice	S.F.	250
Trellis – Stone Columns with Stone Base	EA.	3
Concrete Piers	EA.	11
Wall Footing	L.F.	80
Wall CMU	S.F.F.	684
Wall Stone Facing	S.F.F.	684
Wall Stone Cap	L.F.	70
Cut Stone Seat Pods (4'x4') with Concrete Footing	EA.	2
Double-sided Cast Stone Sign Panel with Sandblasted City Logo (5'-0" x 10'-0")	EA.	1
Concrete Pavers on CTB Base	S.F.	1,200
4" Stained Concrete Paving	S.F.	211
Stain on Concrete Trail (Premium Cost Only)	S.F.	105
Relocate Existing Sign and Add Stone Columns	L.S.	1
Concrete Mow Strip	L.F.	231
Drinking Fountain (Including Water Line and Sump)	L.S.	1
Bike Racks	EA.	2
Ornamental Grass (5 gal)	EA.	119
Ornamental Grass (3 gal)	EA.	187
Ornamental Grass (1 gal)	EA.	190
Perennial (1 gal)	EA.	213
Solid Sod Bermuda Grass	S.F.	1,422
Fertilizers	L.S.	1
Bed Preparation	S.F.	2,553

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Irrigation (Drip)	S.F.	2,553
Irrigation Controller	EA.	1

**Item 1122. Temporary Erosion, Sedimentation, and Environmental Controls**

The SW3P for this project shall consist of using the following items as directed:

- a. Temporary Sediment Control Fence
- b. Earthwork for Erosion Control
- c. Biogradable Erosion Control Logs

Remove accumulated sediment and/or replace SW3P controls when the capacity has been reduced by 50% or when the depth of sediment at the control structure exceeds one foot.

**Item 1142. 6" PVC Water Line C900 DR 18 0-6' Depth**

The unit price bid per linear foot of 6" PVC Water Line shall include all related appurtenances such as bends, fittings, concrete thrust blocking, embedment, water line testing, etc., for a complete system.

**Item 3267. Dense-Graded Hot-Mix Asphalt (Small Quantity)**

In Table 1, the Micro-Deval abrasion test is not required.

RAP aggregate must meet the requirements of Table 1.

Provide aggregate with a Surface Aggregate Classification (SAC) value of B.

Provide a PG70-22 asphalt for the surface course.

Provide a PG64-22 asphalt for the base course.

Provide a PG70-22 asphalt for the surface course when using fractionated RAP.

Provide the PG70-22 asphalt with any of the following modification alternatives:

- \* PG64-22 modified with SBS at the refinery
- \* PG64-22 modified with SBR Latex at the Hot Mix Plant.

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\* AC-10 modified with SBR Latex at the Hot Mix Plant.

\* PG64-22 modified with Crumb Rubber and Vestenamer (TOR) at the Hot Mix Plant.

When the asphalt is modified at the Hot Mix Plant, provide the PG 64-22 or AC-10 refinery certification.

The additive rate for the SBS, SBR Latex, or the Crumb Rubber and Vestenamer will be based upon the quantity needed blended with the asphalt to produce the required asphalt grade shown above (PG 76-22 or PG 70-22).

Grade Substitution per Table 5 is not allowed when using any of the last 3 alternatives listed above.

Furnish a CSS-1P with greater than 50% asphalt residue for the tack coat on this project.

Warm Mix Asphalt (WMA) is required for this project.

Use the following notes when using Warm Mix Asphalt (WMA):

Notify the District Pavement Design Engineer (Andrew V. Kissig, P.E., CFM; [Andy.Kissig@txdot.gov](mailto:Andy.Kissig@txdot.gov)) with the following information: 1) The Project's CSJ, 2) the application (Base, Surface, Shoulder Level-up...) with the corresponding lift thicknesses for those applications, and Mix Type (Type A, B, C, D...). Also provide the approximate Hot Mix tonnage used for those applications and the WMA additive process used (Evotherm DAT/G, SASOBIT, Rediset WMX, or Advera).

Use an Evotherm DAT Warm Mix Asphalt (WMA), or a SASOBIT WMA, or a Rediset WMX WMA, or an Advera WMA product additive for all mix applications. Use an approved metering device attached to the plant to measure and produce a recorded printout of the amount of WMA additive going into the mix. Delivery temperature shall be a maximum of 235° F. Delivery and roll out temperatures will be modified by the Supplier and accepted by the Engineer. All work related to WMA product additives is subsidiary to this item.

To produce an Evotherm WMA use Evotherm DAT or Evotherm 3G. Evotherm 3G is metered into the asphalt between 0.5% and 0.7% by total asphalt weight. Evotherm DAT, a chemical solution, is metered into the asphalt between 5.0% and 7.0% by total asphalt weight.

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To produce a SASOBIT WMA, the mix production facility will receive SASOBIT from the solution supplier. SASOBIT is metered into the asphalt line at a rate of 1.5% by weight of total binder content.

To produce a Rediset WMX WMA, pre-blend with the asphalt or dose into the mixing drum via the RAP belt or port. Use 1.5% or 2.0% by weight of asphalt dependent upon the mix type.

To produce an Advera WMA, pre-blend with RAP or RAS, or dose into the mixing drum via the RAP belt or port. Use between 0.05% to 0.25% by weight of Advera WMA in the hot mix dependent upon the mix type and the supplier's recommendation.

An authorized representative of the WMA product additive supplier shall be present onsite during the first day of asphalt placement.

Substitute binders are not allowed on this project.

A pre-paving meeting with the Engineer is not required for this project.

Target laboratory molded density is 97.0%.

Use the Boil Test, Test Procedure Tex-530-C, and provide only mixes that produce zero percent (0%) stripping for design verification and during production.

For Table 10, the Minimum Number of Passes required for each High-Temperature Binder Grade is reduced by 5,000 passes.

Include the approved mix design number on each delivery ticket.

Use a Mechanical Transfer Device (MTD) unless otherwise directed by the Engineer.

Shoulders, ramps, crossovers, and other areas listed on the Plan sheets or as directed by the Engineer are not subject to in-place air void determination for this project.

Temporary detours are subject to in-place air void determination for this project.

Use Surface Test Type B for this project.

Ride quality is not required on this project.

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**Item 6834. Portable Changeable Message Signs**

All portable changeable message signs and arrow panels are to be provided with a photoelectric device to allow for automatic dimming of operations to approximately 50% of their normal brightness when ambient light drops to approximately five footcandles, and then increase back again for daytime operations.

Two electronic portable changeable message sign units will be required. Individual or collective use of signs will be required by Engineer when deemed necessary to supplement the traffic control plan.

Each sign shall be programmed in its permanent memory the following 15 messages:

1. Exit Closed Ahead
2. Use Other Routes
3. Right Lane
4. Left Lane
5. Closed Ahead
6. Two Lane
7. Detour Ahead
8. Thru Traffic
9. Prepare To Stop
10. Merging Traffic
11. Expect 15 Minute Delay
12. Max Speed \*\* MPH
13. Merge Right
14. Merge Left
15. No Exit Next \*\* Miles